

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/05614

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L7/04 H04L27/26 H04L12/28 H04B7/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L G06F H04B H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 117 441 A (WEIGAND DAVID L) 26 May 1992 (1992-05-26)	1, 14, 16
Y	column 2, line 49 -column 3, line 32 column 3, line 51 -column 4, line 6 ---	8-11
Y	WO 97 24819 A (NOKIA TELECOMMUNICATIONS OY ;JYRKAE KARI (FI); PIIRAINEN OLLI (FI) 10 July 1997 (1997-07-10) page 5, line 27 -page 7, line 9 page 8, line 9 - line 25 figure 4 --- -/--	8-11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

3 September 2002

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	R. VAN NEE ET AL.: "OFDM Wireless Multimedia Communications" 2000, ARTECH HOUSE, BOSTON XP002190874 240120 cited in the application page 86, paragraph 4.6 -page 89, paragraph 4.7 ---	3-5,7,8, 17
A	US 4 583 048 A (GUMACOS CONSTANTINE ET AL) 15 April 1986 (1986-04-15) column 6, line 33 - line 52 column 9, line 1 -column 10, line 20 figures 3,6A ---	1,4,5,16
A	US 5 251 233 A (LABEDZ GERALD P ET AL) 5 October 1993 (1993-10-05) column 3, line 31 -column 4, line 14 column 4, line 29 -column 5, line 16 ---	1-9,16, 17
A	US 5 778 022 A (WALLEY JOHN S) 7 July 1998 (1998-07-07) column 7, line 3 - line 20 column 8, line 8 - line 18 column 9, line 51 - line 60 column 12, line 18 - line 40 ---	7-13
A	D'ARIA G ET AL: "SYNCHRONIZATION TECHNIQUES AND VITERBI EQUALIZERS FOR TDMA MOBILE RADIO" TECHNICAL REPORTS - CSELT, TURIN, IT, vol. 17, no. 2, 1 April 1989 (1989-04-01), pages 125-131, XP000575030 ISSN: 0393-2648 page 127, left-hand column, paragraph 2 -right-hand column, paragraph 1 figures 4-6,9 ---	8-11
A	TAN B S E ET AL: "LOW COMPLEXITY SPREAD SPECTRUM CORRELATOR" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 33, no. 14, 3 July 1997 (1997-07-03), pages 1204-1205, XP000734161 ISSN: 0013-5194 the whole document --- -/--	1,16

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	<p>CHARLIE CAHN ET AL.: "Performance in Gaussian noise of proposed PN sync preamble for IEEE 802.16 OFDM" IEEE 802.16 BROADBAND WIRELESS ACCESS WORKING GROUP, 'Online! 6 July 2001 (2001-07-06), pages 1-10, XP002190143</p> <p>Retrieved from the Internet: <URL:http://wirelessman.org/tg3_4/contrib/80216abc-01_13.pdf> 'retrieved on 2002-02-12! page 3, paragraph 3.2 -----</p>	1,8,16

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Information on patent family members

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